## AMENDMENTS TO THE CLAIMS

1-79. (Cancelled).

80. (Currently Amended) A method of operating an active pixel CMOS imager, comprising:

activating a first pixel in a row of pixels connected to a shared column line <u>using a first row select line</u> and then subsequently activating an adjacent second pixel in the row of pixels connected to the shared column line <u>using a second select row line</u>, wherein the first row <u>select line and the second row select line each run along the row of pixels and are not connected to pixels of any other row of the array</u>, the first and second pixels disposed in a pixel array;

resetting a voltage level of a node to a predetermined voltage using a reset transistor addressed by a reset line that extends approximately linearly across the pixel array;

transferring charge collected by the first pixel to the node;

detecting the charge at the node; and

generating an output signal over the shared column line corresponding to the charge detected at the node.

- 81. (Previously Presented) The method of claim 80, wherein the shared column line extends approximately linearly across the pixel array.
- 82. (Currently Amended) The method of claim 81, further comprising a wherein the first and second row select lines that extends extend approximately linearly across the pixel array.
- 83. (Currently Amended) The method of claim 80, further emprising a wherein the first and second row select lines that extends extend approximately linearly across the pixel array.
- 84. (Currently Amended) A method of operating a system, comprising:

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focusing an image on an active pixel CMOS imager, the imager comprising a pixel array;

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activating a first pixel in a row connected to a shared column line using a first row select line and then subsequently activating an adjacent second pixel in the row connected to the shared column line using a second row select line, the pixel array comprising the first and second pixels and the first row select line and second row select line each running along the length of the row and not being connected to pixels of any other row;

resetting a voltage level of a node associated with the first pixel to a predetermined voltage using a reset transistor addressed by a reset line that extends approximately linearly across the pixel array;

transferring charge collected by the first pixel to the node;

detecting the charge at the node; and

generating an output signal over the shared column line, the output signal corresponding to the image.

- 85. (Previously Presented) The method of claim 84, wherein the shared column line extends approximately linearly across the pixel array.
- 86. (Currently Amended) The method of claim 85, further emprising a wherein the first and second row select lines that extends extend approximately linearly across the pixel array.
- 87. (Currently Amended) The method of claim 84, further emprising a wherein the first and second row select lines that extends extend approximately linearly across the pixel array.
- 88. (Currently Amended) An active pixel CMOS imager, comprising:

a plurality of pixels to generate an output signal associated with detected light, the plurality of pixels arranged in rows and columns of an array, each said row having both odd and even pixels;

a plurality of column lines each connected to at least two adjacent pixels of a row in the array, the column lines being connected to output circuitry to output the signal;

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a plurality of odd row select lines orthogonal to the column lines to address odd pixels in the rows;

a plurality of even row select lines orthogonal to the column lines to address even pixels in the rows, wherein the even row select lines do not address the odd pixels and the odd row select lines do not address the even pixels;

a column driver to address pixels connected to the column lines; and a row driver to address pixels through the odd row select lines and the even row select lines.

- 89. (Previously Presented) The imager of claim 88, wherein the column lines extend approximately linearly across the array.
- 90. (Previously Presented) The imager of claim 89, wherein the odd and even row select lines extend approximately linearly across the array.
- 91. (Previously Presented) The imager of claim 88, wherein the odd and even row select lines extend approximately linearly across the array.

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- 92. (Previously Presented) The imager of claim 88, further comprising a plurality of reset lines that extend approximately linearly across the array.
- 93. (Currently Amended) A method of operating a CMOS imager, comprising:

addressing even pixels in a row of pixels of an array of pixels using a row driver coupled to an even row select line;

providing a first output signal associated with light detected by the even pixels to a plurality of column lines coupled to the even pixels;

addressing odd pixels in the row of pixels via an odd row select line, wherein the even row select lines do not address the odd pixels and the odd row select lines do not address the even pixels; and

providing a second output signal associated with light detected by the odd pixels to the plurality of column lines coupled to the odd pixels.

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- 94. (Previously Presented) The method of claim 93, wherein the column lines extend approximately linearly across the array and are approximately orthogonal to both the even row select line and the odd row select line.
- 95. (Previously Presented) The method of claim 94, wherein the odd and even row select lines extend approximately linearly across the array.
- 96. (Previously Presented) The method of claim 94, further comprising a plurality of reset lines that extend approximately linearly across the array.
- 97. (Currently Amended) An imaging device, comprising: a row comprising a first pixel and a second pixel; the first and second pixels being joined by a diagonal active area component;
- [[an]] a first even row line connected with the first pixel;
- [[an]] a second odd row line connected with the second pixel, wherein said first even row line and said second odd row line are associated with said row and not any other row; and
- a column line connected with the first and second pixels at the diagonal active area component.
- 98. (Previously Presented) The imaging device of claim 97, wherein the row further comprises a plurality of first pixels and a plurality of second pixels.
- 99. (Currently Amended) The imaging device of claim 97, wherein the <u>first</u> even row line and <u>second</u> odd row line <u>each</u> extends substantially linearly across an array of pixels.

100. (Previously Presented) The imaging device of claim 97, further comprising a first reset line for the first pixel and a second reset line for the second pixel.

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- 101. (Currently Amended) The imaging device of claim 100, wherein each of the <u>first</u> even row line, <u>second</u> odd row line, first reset line, and second reset line extends substantially linearly across the first and second pixels.
- 102. (Currently Amended) An imaging device, comprising: a pixel array comprising a row comprising a plurality of first pixels and a plurality of second pixels;
- a first row address line connected with the first pixels;
- a second row address line connected with the second pixels, wherein the second row address line is not connected with the first pixels and the first row address line is not connected with the second pixels;
- a respective column line for each pair of first and second pixels of the row; and
- a reset line connected to the plurality of first pixels.
- 103. (Previously Presented) The imaging device of claim 102, wherein the plurality of first pixels are every other pixel in the row.
- 104. (Previously Presented) The imaging device of claim 102, wherein each pair of first and second pixels of the row are arranged with the first and second pixels positioned adjacent each other along the column line.
- 105. (Previously Presented) The imaging device of claim 102, wherein each pair of first and second pixels are connected by a substantially diagonal active area.
- 106. (Currently Amended) An imaging device comprising: a row of pixels comprising a first plurality of pixels and a second plurality of pixels, a first address line connected to a addressing only

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the first plurality of said pixels and a second address line connected to a addressing only the second plurality of said pixels;

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a plurality of read-out lines, each of said read-out lines being connected to a first pixel of the first plurality of pixels and a second pixel of the second plurality of pixels; and

a reset line connected to at least the first plurality of pixels or the second plurality of pixels.